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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,801	03/12/2004	Sander Jurgen Roosendaal	NL010603A	8309
24737	7590	11/02/2005	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			NGUYEN, HOAN C	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 11/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

**Office Action Summary**

Application No.

10/799,801

Applicant(s)

ROOSENDAAL ET AL.

Examiner

HOAN C. NGUYEN

Art Unit

2871

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on 02 September 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 6-27 is/are pending in the application.
- 4a) Of the above claim(s) 6-10, 14 and 16-19 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 11-13, 15, 20 and 22 is/are rejected.
- 7) ☒ Claim(s) 21 and 23-27 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Amendment***

Applicant's arguments with respect to claims 12 and 26 based on the Response filed on 09/02/2005 have been considered but are moot in view of the new ground(s) of rejection. Therefore, this is Final action.

### ***Information Disclosure Statement***

The information disclosure statement filed 3/12/2004 (applicant filed examiner's Notice of reference PTO-892 of the parent application) fails to comply with 37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications, applications, or other information submitted for consideration by the Office; (2) U.S. patents and U.S. patent application publications listed in a section separately from citations of other documents; (3) the application number of the application in which the information disclosure statement is being submitted on each page of the list; (4) a column that provides a blank space next to each document to be considered, for the examiner's initials; and (5) a heading that clearly indicates that the list is an information disclosure statement. The information disclosure statement has been placed in the application file, but the information referred to therein has not been considered.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11-13, 15, 20 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Crawford et al. (US5928819A).

In regard to claim 11, Crawford et al. teach (Figs. 6-14) a method of producing a patterned optical foil, comprising:

- providing a film of reactive liquid crystal material 46A/46B;
- providing a pattern for processing the reactive liquid crystal that defines first area segments ("core" areas 64a/64b) and second area segments ("cladding" areas 66a/66b) of the film: and
- processing with UV radiation 62 the reactive liquid crystal via the pattern to produce:
  - a first optical retardation in the first area segments, and
  - a second optical retardation in the second area segments;

wherein the first optical retardation is substantially different from the second optical retardation since the refraction indexes of the first area segments and the second area segments and LC-molecules alignments (vertical vs. horizontal) of the reactive liquid crystal are substantially different.

Claim 12:

- the first optical retardation is configured to provide an optical twist of 90 degrees (vertical) in the range of 80 to 100 degrees, and the second optical retardation is configured to provide an optical twist of near zero degrees (horizontal).

Claim 13:

- the first optical retardation is substantially inherently determined by a thickness of the reactive liquid crystal material since optical retardation defines as the product of anisotropic index refraction and thickness.

Claim 15:

- processing with UV radiation 62 the reactive liquid crystal via the pattern including
  - photo-polymerizing the reactive liquid crystal material at a first temperature (col. 8 lines 33-46), at which the reactive liquid crystal material is in a nematic liquid crystal phase;
  - photo-polymerizing the reactive liquid crystal material at a second temperature that is inherently above a clearing point of the reactive liquid crystal material so that this process produces Fiber Optic Faceplates.

Claim 20:

- the first area segments and second area segments form pairs of segments that are arranged as a two-dimensional array of pairs of segments

Claim 22:

- the second area segments are substantially transparent due to produce Fiber Optic Faceplates.

### ***Allowable Subject Matter***

Claims 21 and 23-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Claim 21 is allowable since there is no prior art teaches a method of producing optical foil comprising the array of pairs of reactive liquid crystal segments corresponds to an array of pixels of a display device.

Claim 23 is allowable since there is no prior art teaches a method of producing optical foil comprising each pairs of first and second area segments corresponds to an array of pixels of a display device, wherein first and second area segments are made of reactive liquid crystal.

Claims 24-27 are allowable since they depend on the allowable claim 23.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (571) 272-2296. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim H. Robert can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2871

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HOAN C. NGUYEN  
Examiner  
Art Unit 2871

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**ANDREW SCHECHTER**  
**PRIMARY EXAMINER**